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COMMONWEALTH BUREAU OF HORTICULTURE AND PLANTATION CROPS

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Horticultural abstracts

Volume 53

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APPLICATION

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Yearbooks	—	—	148	231	304	—	—	—	611	—	—	809
Conference proceedings and symposia	9	81	148	231	304	376	461	548	611	669	733	809
Annual and other reports	9	81	148	231	304	376	461	548	612	670	734	809
Horticulture in various countries	10	82	—	232	—	—	462	—	612	670	—	—
Experimental techniques and apparatus	10	82	149	232	304	377	462	549	612	670	735	809
Breeding and selection	10	—	150	—	—	—	—	—	612	—	—	—
Propagation	—	82	150	—	—	377	462	549	612	670	735	810
Climate and pollution	10	82	—	232	—	377	462	—	612	671	735	810
Management	10	82	150	—	304	377	462	—	613	—	735	810
Greenhouses	11	82	150	232	304	378	463	549	613	671	736	811
Soils and nutrition	12	—	150	233	305	378	463	550	—	671	736	812
Crop protection	12	—	151	233	305	—	464	550	—	—	736	—
Chemical residues	—	83	151	—	305	378	—	550	613	671	—	—
Morphology	—	—	—	—	—	—	—	—	—	—	—	812
Physiology and biochemistry	12	83	151	233	305	378	464	550	613	671	736	812
Reproduction	—	—	151	—	—	—	—	—	613	673	—	—
Field equipment	—	—	151	233	305	—	—	550	—	—	737	—
Handling and storage	—	—	151	233	—	379	464	550	—	673	737	812
Quality	12	—	—	—	—	—	464	—	—	—	—	813
Miscellany	12	83	151	234	305	379	—	—	613	673	737	813

TEMPERATE TREE FRUITS AND NUTS

General	12	83	152	234	305	379	464	551	614	673	737	813
Almonds	13	83	152	234	306	380	465	551	614	674	738	813
Apples	13	84	152	234	306	380	465	551	614	674	738	814
Apricots	18	89	157	240	311	385	471	558	617	679	743	820
Cherries	18	89	157	240	311	385	472	559	618	679	743	820
Chestnuts	—	—	158	—	313	386	—	—	619	—	743	—
Cobnuts and hazels	—	89	—	241	—	—	473	—	619	—	—	—
Figs	20	90	158	241	313	—	—	560	619	680	—	—
Mulberries	—	—	158	241	—	—	—	560	—	—	—	821
Peaches and nectarines	20	90	158	241	313	387	473	560	619	680	743	821
Pears	22	91	159	243	315	388	475	561	621	681	744	822
Pecans and hickories	22	92	161	243	315	388	476	561	622	682	744	823
Pistachios	23	92	161	243	316	—	477	—	—	683	—	—
Plums, prunes and damsons	23	93	161	244	316	388	477	561	622	683	744	823
Quinces	—	—	—	—	—	—	—	—	623	—	—	—
Walnuts	24	—	162	—	316	389	477	562	623	—	744	823
Sundry crops	24	93	—	244	—	—	477	—	623	684	—	823

SMALL FRUITS AND GRAPEVINES

General	—	93	162	244	—	389	477	562	623	684	—	823
<i>Actinidia</i> species	24	93	162	—	316	389	477	562	623	684	745	823
Currants	24	93	162	244	317	389	478	562	623	684	745	—
Gooseberries	—	94	163	245	—	—	478	—	—	—	745	—
Minor <i>Ribes</i> species	—	—	—	—	—	—	478	—	—	—	—	—
Blackberries	24	94	163	245	—	390	478	562	—	684	745	824
Raspberries	24	94	163	245	317	390	479	563	624	684	745	824
Minor <i>Rubus</i> species	—	94	—	—	—	—	479	—	624	—	745	—
<i>Vaccinium</i> species	25	94	164	245	317	391	479	563	624	684	745	—
Strawberries	25	94	165	247	318	392	479	563	625	684	746	824
Grapevines	26	95	166	248	319	393	480	566	625	685	747	825
Sundry crops	30	—	—	253	321	397	485	—	—	690	—	—

VEGETABLES, TEMPERATE, TROPICAL AND GREENHOUSE

General	30	99	169	253	321	397	486	568	627	690	750	826
Alliaceae	31	100	169	253	322	398	487	570	628	690	752	827
Garlic	31	100	169	253	322	398	487	570	628	690	752	827
Leeks	31	—	170	253	—	398	—	570	628	690	752	828
Onions	32	100	170	253	322	398	487	570	628	690	752	828
Other <i>Allium</i> species	—	—	171	—	324	—	489	—	628	691	753	828
Chenopodiaceae	33	101	171	254	324	399	490	571	629	691	753	828
Beetroot	—	—	171	—	324	399	—	571	629	—	753	828
Spinach	33	101	171	254	324	399	490	571	629	691	753	828

VEGETABLES, TEMPERATE, TROPICAL AND GREENHOUSE (contd.)

Spinach beet	—	—	171	254	—	400	—	—	—	—	691	753	—
Other Chenopodiaceae	—	—	—	—	—	—	—	—	—	—	—	—	—
Compositae	33	101	171	255	325	400	490	571	629	691	753	829	—
Artichokes (Jerusalem)	33	101	171	—	325	—	490	—	629	691	—	829	—
Artichokes (globe)	33	101	—	255	325	400	—	—	629	—	753	829	—
Cardoons	—	—	—	—	—	—	—	—	—	—	—	—	—
Chicory	—	—	—	255	325	400	490	571	—	691	—	—	—
Endive	—	—	—	—	—	400	—	571	—	—	—	—	—
Lettuce	34	101	171	255	325	400	490	572	629	691	753	829	—
Salsify	—	—	—	—	—	—	—	—	—	—	—	—	—
Scorzonera	35	—	—	255	—	—	—	—	—	—	754	—	—
Other Compositae	—	—	—	—	—	402	—	—	—	—	—	—	—
Cruciferae	35	102	173	256	325	402	492	573	630	692	754	830	—
Brassicas	35	102	173	256	325	402	492	573	630	692	754	830	—
Cress	36	102	—	—	—	403	—	—	630	693	—	831	—
Radishes	37	103	174	257	327	404	494	574	631	693	755	831	—
Watercress	—	103	—	—	—	—	494	574	—	693	—	832	—
Other Cruciferae	—	—	—	—	—	—	—	—	—	—	—	—	—
Cucurbitaceae	38	103	175	257	327	404	494	574	631	693	755	832	—
Leguminosae	40	105	178	259	329	406	496	576	632	695	757	833	—
Beans (<i>Phaseolus</i>)	40	105	178	259	329	406	496	576	632	695	757	833	—
Beans (<i>Vicia</i>)	42	107	179	260	330	410	497	579	634	695	763	837	—
Beans (<i>Cyamopsis</i>)	—	—	180	—	—	411	—	—	635	—	765	839	—
Peas	42	107	180	260	330	411	498	579	635	695	765	839	—
Other Leguminosae	—	—	181	—	—	412	498	580	637	—	772	—	—
Liliaceae	43	109	181	260	331	413	498	581	637	696	772	—	—
Asparagus	43	109	181	260	331	413	498	581	637	696	772	—	—
Other Liliaceae	—	—	—	—	—	—	—	—	—	—	—	—	—
Malvaceae	43	109	182	—	332	413	499	581	637	696	773	842	—
Okra	43	109	182	—	332	413	499	581	637	696	773	842	—
Other Malvaceae	—	—	—	—	—	—	—	—	—	—	—	—	—
Polygonaceae	—	109	182	—	—	—	499	—	—	—	773	—	—
Rhubarb	—	109	182	—	—	—	499	—	—	—	773	—	—
Other Polygonaceae	—	—	182	—	—	—	—	—	—	—	—	842	—
Solanaceae	44	109	182	261	332	413	499	581	637	696	773	842	—
Capsicums	44	109	182	261	332	413	499	581	637	696	773	842	—
Eggplants	44	110	183	—	332	414	501	582	637	696	—	842	—
Tomatoes	45	110	183	262	332	414	501	582	638	697	774	842	—
Other Solanaceae	—	—	266	—	—	—	—	—	—	—	776	—	—
Umbelliferae	49	113	186	266	335	418	508	585	640	700	776	846	—
Carrots	49	113	186	266	335	418	508	585	640	700	776	846	—
Parsnips	50	—	—	—	—	—	—	—	—	—	—	—	—
Celery	50	114	—	266	336	419	509	586	641	700	—	846	—
Celeriac	—	—	187	266	336	—	—	—	—	—	778	—	—
Other Umbelliferae	—	114	—	—	—	—	—	—	—	—	—	—	—
Sundry crops	50	114	187	267	337	419	509	586	641	700	—	847	—
Mushrooms	50	115	187	267	337	420	509	586	641	701	778	847	—
Other fungi	—	—	—	—	—	—	—	—	—	—	—	—	—
ORNAMENTAL PLANTS													
General	52	115	187	268	338	420	510	588	642	701	778	847	—
Antirrhinums	52	—	188	—	—	—	—	588	642	—	—	848	—
Carnations and pinks	52	116	188	269	338	421	511	588	642	702	779	848	—
Chrysanthemums	52	116	189	269	339	421	511	588	643	702	779	849	—
Gerberas	—	118	189	269	339	422	—	589	644	703	779	850	—
Morning glories	53	118	190	—	—	—	—	—	—	703	779	—	—
Pelargoniums	53	118	190	270	339	—	511	589	644	703	780	850	—
Petunias	53	118	190	270	340	423	512	—	644	703	—	850	—
Primulas	54	—	—	270	—	423	512	—	—	704	—	—	—
Saintpaulias	54	119	190	270	341	—	—	589	645	704	780	—	—
Other annual and herbaceous plants	54	119	190	270	341	423	513	590	645	704	780	850	—
Bulbs, tubers, etc. — general	—	119	—	—	—	—	—	591	—	—	—	851	—
Anemones	—	—	—	—	—	—	—	—	—	—	—	—	—
Begonias	—	119	191	271	342	425	513	—	646	705	781	851	—
Crocuses	—	119	—	272	—	—	—	—	646	—	—	—	—
Cyclamen	56	—	191	272	342	425	513	—	—	705	—	—	—
Dahlias	—	—	192	—	—	—	—	—	—	—	—	—	—
Freesias	—	—	—	273	342	425	—	591	—	—	—	851	—
Gladioli	56	119	192	273	—	425	513	—	646	—	781	851	—
Gloxinias	—	—	—	273	—	—	—	—	—	—	—	—	—
Hyacinths	—	—	—	273	342	425	514	—	—	—	—	—	—
Irises	—	—	192	273	343	425	514	—	646	705	781	852	—
Lilies	56	120	192	273	343	426	515	591	646	705	782	852	—
Narcissi	—	—	193	274	344	—	—	591	647	—	782	853	—
Nerines	—	—	—	—	—	—	—	—	—	—	—	—	—
Tulips	56	120	193	275	344	426	516	591	647	705	782	853	—
Other bulbs, tubers, etc.	56	120	193	275	344	426	517	591	647	705	783	853	—

ORNAMENTAL PLANTS (contd.)																
Lawns and other turf ...	...	...	...	...	...	56	120	193	275	345	427	517	591	647	706	783 853
Aquatic plants ...	...	...	...	...	...	—	122	—	—	—	—	—	—	—	708	784 —
Bromeliads ...	...	...	...	...	...	—	—	—	279	347	—	519	—	—	—	784 854
Other foliage and succulent plants ...	...	...	...	...	...	57	123	197	279	347	428	519	592	648	708	784 854
Orchids ...	...	...	...	...	...	58	124	199	280	348	429	521	593	—	709	785 856
Trees and shrubs — general ...	...	...	...	...	...	58	125	199	281	348	430	522	593	649	709	785 857
Bougainvilleas ...	...	...	...	...	...	59	126	—	—	349	—	523	—	—	—	—
Camellias ...	...	...	...	...	...	—	126	200	282	349	—	—	594	651	—	786 —
Conifers ...	...	...	...	...	...	59	126	200	282	349	431	523	595	651	709	786 858
Heaths and heathers ...	...	...	...	...	...	—	126	200	282	—	431	523	595	651	709	— 858
Hollies ...	...	...	...	...	...	60	127	—	—	349	431	523	595	—	710	787 858
Hydrangeas ...	...	...	...	...	...	60	—	—	282	349	431	—	—	—	—	—
Ivies ...	...	...	...	...	...	60	—	201	—	—	431	—	595	—	—	—
Jasmines ...	...	...	...	...	...	—	127	201	282	—	431	523	—	651	—	787 —
Lilacs ...	...	...	...	...	...	—	—	—	—	—	431	—	595	—	—	859
Magnolias ...	...	...	...	...	...	60	—	201	282	—	—	523	595	—	—	859
Poinsettias ...	...	...	...	...	...	60	127	201	283	350	432	524	596	651	710	787 859
Rhododendrons and azaleas ...	...	...	...	...	...	60	127	201	283	350	432	524	596	651	710	787 859
Roses ...	...	...	...	...	...	60	127	202	283	350	433	524	596	652	710	788 859
Other trees and shrubs ...	...	...	...	...	...	61	128	203	284	351	433	524	597	652	711	788 860
MINOR TEMPERATE AND TROPICAL INDUSTRIAL CROPS																
General ...	...	...	...	...	...	—	—	—	—	—	—	526	—	—	—	791 —
Condiment and spice plants ...	...	...	...	...	...	62	129	204	285	352	435	526	599	654	713	791 862
Dye plants ...	...	...	...	...	...	—	130	205	286	353	436	527	—	—	713	791 862
Essential oil plants ...	...	...	...	...	...	62	130	205	286	353	436	527	600	655	713	791 862
Hard fibre plants ...	...	...	...	...	...	64	—	—	—	354	—	529	—	655	715	791 863
Hops ...	...	...	...	...	...	—	131	206	287	—	437	529	600	655	715	791 863
Insecticidal and other pesticidal plants ...	...	...	...	...	...	64	131	207	288	354	437	529	—	656	715	792 863
Medicinal plants ...	...	...	...	...	...	64	131	207	288	355	438	529	600	656	715	792 863
Perennial fatty oil plants ...	...	...	...	...	...	71	—	212	291	360	442	534	604	659	720	— 869
Sundry plants ...	...	...	...	...	...	71	136	212	292	360	443	534	604	659	720	795 869
SUBTROPICAL FRUIT AND PLANTATION CROPS																
General ...	...	...	...	...	...	—	—	212	292	—	443	534	—	660	—	795 870
Avocados ...	...	...	...	...	...	71	136	212	292	360	443	534	604	660	720	795 870
Carobs ...	...	...	...	...	...	—	—	214	292	360	—	—	—	660	—	—
Citrus ...	...	...	...	...	...	72	136	214	292	360	443	535	605	660	720	795 872
Dates ...	...	...	...	...	...	74	—	—	295	—	446	537	606	663	722	— —
Feijoas ...	...	...	...	...	...	—	—	219	—	—	—	537	—	—	722	— —
Litchis ...	...	...	...	...	...	—	—	—	—	—	446	537	606	—	722	800 —
Longans ...	...	...	...	...	...	—	—	—	—	—	—	—	—	—	—	—
Loquats ...	...	...	...	...	...	74	—	219	—	—	—	—	—	—	722	— 881
Macadamias ...	...	...	...	...	...	—	140	219	—	366	446	537	—	663	722	800 881
Olives ...	...	...	...	...	...	74	140	219	296	366	446	537	607	663	722	800 882
Passion fruit ...	...	...	...	...	...	—	140	219	—	368	—	537	—	—	723	800 882
Persimmons ...	...	...	...	...	...	75	140	220	—	368	447	538	607	—	723	800 882
Pomegranates ...	...	...	...	...	...	75	—	220	—	—	—	—	607	—	—	—
Prickly pears ...	...	...	...	...	...	—	140	220	—	368	—	538	—	—	800	882
Tamarillos ...	...	...	...	...	...	—	140	—	—	—	—	—	—	663	723	— —
Tung ...	...	...	...	...	...	—	—	—	—	—	—	—	608	—	—	—
Sundry crops ...	...	...	...	...	...	75	—	—	—	—	—	—	608	—	723	— —
TROPICAL FRUIT AND PLANTATION CROPS																
General ...	...	...	...	...	...	—	—	220	296	368	447	538	—	—	723	800 883
Annona species ...	...	...	...	...	...	—	141	220	296	368	—	—	—	—	723	— —
Arecanuts ...	...	...	...	...	...	—	—	—	—	—	447	538	608	—	—	—
Artocarpus species ...	...	...	...	...	...	—	141	—	296	—	447	—	—	—	723	— —
Bananas and abaca ...	...	...	...	...	...	75	141	220	296	368	447	538	608	663	723	801 883
Cashews ...	...	...	...	...	...	—	141	221	296	369	448	538	608	664	724	801 884
Cocoa ...	...	...	...	...	...	75	141	221	297	369	449	538	608	664	724	801 884
Coconuts ...	...	...	...	...	...	76	142	221	297	369	452	539	609	664	727	804 884
Coffee ...	...	...	...	...	...	76	142	222	297	369	452	539	609	664	727	804 884
Cola ...	...	...	...	...	...	—	—	—	298	—	—	—	—	665	—	—
Guavas ...	...	...	...	...	...	76	142	222	298	370	453	540	609	665	728	804 885
Mangoes ...	...	...	...	...	...	76	143	223	298	370	453	540	609	665	728	804 885
Oil palms ...	...	...	...	...	...	76	143	223	298	370	454	541	609	665	728	805 885
Pawpaws ...	...	...	...	...	...	77	143	—	298	371	454	541	—	665	728	805 885
Pineapples ...	...	...	...	...	...	77	144	223	298	371	455	541	610	665	729	805 885
Rubber ...	...	...	...	...	...	77	144	224	299	371	455	542	610	665	729	805 886
Sapodilla ...	...	...	...	...	...	—	—	—	—	456	—	—	—	—	730	— —
Sugarcane ...	...	...	...	...	...	78	144	225	300	372	456	542	610	666	730	805 886
Tea ...	...	...	...	...	...	80	145	226	300	374	457	544	—	667	730	806 894
Ziziphus species	—	146	227	302	374	—	—	—	668	730	— 894
Sundry crops	80	146	227	302	374	458	544	610	668	730	807 895
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SYMBOLS FOR UNITS

Symbol	Unit or Prefix	Symbol	Unit or Prefix	Symbol	Unit or Prefix
a	are	g	gramme	μbar	microbar
A	ampere	G	giga-	min	minute (time)
Å	angstrom	gal	gallon	mol	mole
atm	standard atmosphere	h	hecto-	n	nano-
Btu	British thermal unit	h	hour	Ω	ohm
bu	bushel	hp	horsepower	oz	ounce
c	centi-	hz	hertz	p	pico-
°C	degree Celsius	in	inch	pt	pint
cal	calorie	J	joule	q	quintal
cd	candela	k	kilo-	qt	quart
Ci	curie	l	litre	R	roentgen
ctl	cental	lb	pound	rad	rad (amount of absorbed radiation)
cwt	hundredweight	lbf	pound-force	s	second (time)
d	deci-	lm	lumen	t	tonne (metric ton)
da	deca-	lx	lux	T	tera-
erg	erg	m	metre	ton	ton
f	femto-	m	milli-	V	volt
°F	degree Fahrenheit	mbar	millibar	W	watt
floz	fluid ounce	M	mega-	yd	yard
ft	foot	μ	micro-		

SYMBOLS FOR LANGUAGES

Af	Afrikaans	Fi	Finnish	Nl	Dutch and Flemish
Ar	Arabic	Fr	French	No	Norwegian
Be	Belorussian	Gr	Greek	Pl	Polish
Bg	Bulgarian	He	Hebrew	Pt	Portuguese
Ch	Chinese	Hu	Hungarian	Ro	Romanian
Cs	Czech	In	Indonesian	Ru	Russian
Da	Danish	It	Italian	Sh	Serbo-Croat
De	German	Ja	Japanese	Sk	Slovak
Ee	Estonian	Ko	Korean	Sn	Slovene
En	English	Li	Lithuanian	Sv	Swedish
Eo	Esperanto	Lv	Latvian	Tr	Turkish
Es	Spanish	Ma	Macedonian	Uk	Ukrainian

Symbols with capitals represent the language of the paper; symbols without capitals the summaries.

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ERRATA

(lines are counted from the beginning of the bibliographic data in each item.)

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Page	Abstract	Line	
14	63	9	For '3.75' read '2.75'
17	85	15	For 'was' read 'were'
19	105	7	For '97442' read '97331'
32	230	7	For 'Musselbrugh' read 'Musselburgh'
40	306	7	For ' <i>sativa</i> ' read ' <i>sativus</i> '
44	348	9	For '[ssp. <i>carotovora</i> .' read '[ssp. <i>carotovora</i>]'
47	381	8	For ' $\mu\text{Em}^{\text{minus}2}\text{s}^{\text{minus}1}$ ' read ' $\mu\text{Em}-2\text{s}-1$ '
49	396	14	For 'bound' read 'found'
52	424	1	For 'ANKALGI' read 'ANKALAGI'
62	530	8	For ' $\text{Fm}^{\text{minus}3}$ ' read ' Fm^{-3} '
63	532	10	For ' <i>Curcumis</i> ' read ' <i>Curcuma</i> '
65	571	2	For 'fom' read 'from'
66	581	6	For ' <i>sophora</i> ' read ' <i>sophera</i> '
73	676	1	For 'ALEPPO. E.' read 'ALEPPO, E.'
79	731	1	For 'LA O, F.' read 'LA O., F'
90	830	6	For '227-295' read '277-295'
100	934	28	For ' $r^2 + 0.80$ ' read ' $r^2 = 0.80$ '
122	1147	12	For '20- at week' read 'at 20-week'
123	1155	7	For ' <i>Brassica</i> ' read ' <i>Brassaia</i> [<i>Schefflera</i>]'
127	1200	1	For 'AIHARA, K.T.' read 'AIHARA, T.'
143	1372	12	For ' $\text{SO}_4^{2\text{minus}}$ ' read ' SO_4 '
143	1379	7	For ' <i>Cleome rutidosperma</i> ' read ' <i>Cleome rutidosperma</i> '
296	2995	6	For ' <i>Uroporus humeralis</i> ' read ' <i>Urophorus humeralis</i> '
343	3453	9	For ' <i>Iris pseudoacorus</i> ' read ' <i>Iris pseudacorus</i> '
368	3748	5	For ' <i>Urophora humeralis</i> ' read ' <i>Urophorus humeralis</i> '
368	3749	7	For ' <i>Urophora humeralis</i> ' read ' <i>Urophorus humeralis</i> '
376	3834	5	For ' <i>Eugenia caryophyllatus</i> ' read ' <i>Eugenia caryophyllus</i> '
376	3834	6	For ' <i>Uncaria gambier</i> ' read ' <i>Uncaria gambir</i> '
379	3860	9	For ' <i>Cupressus leylandii</i> ' read ' <i>Cupressocyparis leylandii</i> '
400	4083	3	For '14' read '24'
509	5222	10	For ' <i>Tremella fuciformis</i> ' read ' <i>Tremella fusiformus</i> '
523	5360	5	For ' <i>Magnolia soulangeana</i> ' read ' <i>Magnolia soulangiana</i> '
595	6072	8	For ' <i>Magnolia soulangeana</i> ' read ' <i>Magnolia soulangiana</i> '
595	6072	9	For ' <i>Magnolia liliflora</i> ' read ' <i>Magnolia liliifolia</i> '
596	6073	6	For ' <i>Magnolia soulangeana</i> ' read ' <i>Magnolia soulangiana</i> '
596	6074	6	For ' <i>Magnolia soulangeana</i> ' read ' <i>Magnolia soulangiana</i> '
596	6075	2	For ' <i>Magnolia liliflora</i> ' read ' <i>Magnolia liliiflora</i> '
803	8240	10	For ' <i>Forcipomya</i> ' read ' <i>Forcipomyia</i> '
805	8254	7	For ' <i>Elaedobius</i> ' read ' <i>Elaeidobius</i> '
806	8265	17	For ' <i>Paspalum urvillea</i> ' read ' <i>Paspalum urvillei</i> '

AUTHOR INDEX

National, research and public organizations, but not commercial firms, are indexed under relevant country

All separate name particles, e.g. Di & von, are transposed to follow the initials.

Variants of author's names may appear next to each other.

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